1.   This action is responsive to the following communications: Amendment, filed

01/12/2009.

2.   Claims 1-10 and 12-23 are pending. Claims 1 and 20 are independent claims.

Claims 11 and 12-26 are canceled.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Sung Kim on 04/27/09.

1.   (Currently Amended) A method for upgrading documents for processing by a

solution module associated with a markup language schema, comprising:

        creating a structured document using a first version of the solution module;

        inputting the structured document having particular data entry fields associated

therewith into a particular version of the solution module, wherein the particular version

is different from the first version of the solution module;

        accessing upgrade functionality for:

                determining whether each of the particular data entry fields matches

expected data entry fields associated with the particular version of the solution module,

<u>wherein the determining further comprises determining whether the input structured</u>

<u>document lacks data entry fields that were previously classified as optional but are no</u>

<u>longer classified as optional in the particular version of the solution module</u>; and

modifying the particular data entry fields of the input structured document

so that the particular data entry fields match the expected data entry fields to thereby

provide a modified structured document that is compatible with the particular version of

the solution module, wherein said modifying occurs prior to transforming the modified

structured document into a format suitable for visual presentation on a display device.

2. (Currently Amended) A method according to claim 1, further comprising:

transforming the modified structured document into another document suitable

for presentation;

displaying the another document suitable for presentation using the particular

version of the solution module to provide a displayed document; and receiving edits to

the displayed document.

3. (Original) The method according to claim 1, wherein the input structured document is

expressed in a markup language that uses tags pertaining to subject matter fields in the

input structured document.

4. (Currently Amended) The method according to claim 3, wherein the input structured

document is expressed in extensible markup language (XML).

5. (Currently Amended) The method according to claim 2, wherein the another document suitable for presentation is expressed in a markup language that uses tags pertaining to visual features associated with the presentation of the another document.

6. (Currently Amended) The method according to claim 5, wherein the another document suitable for presentation is expressed in hypertext markup language (HTML).

7. (Original) The method according to claim 1, wherein the modifying uses an upgrade module that provides a transformation function using extensible stylesheet language (XSL).

8. (Currently Amended) The method according to claim 2, wherein the another document suitable for presentation comprises an electronic form having at least one user data entry field therein.

9. (Currently Amended) The method according to claim 1, wherein the determining of whether each of the particular data entry fields matches expected data entry fields associated with the particular version of the solution module comprises:

determining whether the input structured document contains each of the data entry fields expected by the particular version of the solution module.

10. (Currently Amended) The method according to claim 9, wherein the modifying of the particular data entry fields of the input structured document to produce the modified structured document comprises:

creating each of the data entry fields expected by the particular version of the solution module to provide created data entry fields;

copying data entry fields content from the input structured document into corresponding created data entry fields in the modified structured document for those data entry fields in the input structured document that have counterpart data entry fields expected by the particular version of the solution module; and

creating default data entry fields content in corresponding data entry fields in the modified structured document for those created data entry fields that do not have counterpart data entry fields in the input structured document.

11. (Canceled)

12. (Currently Amended) The method according to claim 1̲11̶, wherein the modifying of the particular data entry fields of the input structured document to produce the modified structured document comprises:

creating new data entry fields in the modified structured document providing that the new data entry fields are lacking in the input structured document and providing that the new data entry fields are required in the particular version of the solution module although considered optional by its schema.

13. (Currently Amended) The method according to claim 1, wherein the expected data entry fields are specified by a schema associated with the particular version of the solution module.

14. (Currently Amended) The method according to claim 1, wherein the expected data entry fields are specified by some information other than a schema associated with the particular version of the solution module.

15. (Currently Amended) The method according to claim 1, wherein the input structured document corresponds to a markup language document generated by an earlier version of the solution module compared to the particular version.

16. (Currently Amended) The method according to claim 1, wherein the input structured document corresponds to a markup language document generated by a later version of the solution module compared to the particular version.

17. (Original) The method according to claim 1, wherein the modifying is performed using an upgrade module, and wherein the upgrade module is developed without knowledge of any requirements of any input structured document.

18. (Currently Amended) The method according to claim 1, wherein the modifying of the

particular data entry fields of the input structured document to produce the modified

structured document comprises:

creating new data entry fields in the modified structured document providing that

the new data entry fields are lacking in the input structured document and providing that

the new data entry fields are required in the particular version of the solution module.

19. (Currently Amended) The method according to claim 1, wherein the modifying of the

particular data entry fields of the input structured document to produce the modified

structured document comprises:

omitting from the modified structured document existing data entry fields in the

input structured document that are not required in the particular version of the solution

module.

20.   (Currently Amended) A method for generating an upgrade module for upgrading

documents for processing by a solution module_associated with a markup language

schema, comprising:

determining whether a particular version of the solution module has been created

that warrants generation of the upgrade module;

when the determination indicates that generation of the upgrade module is

warranted, generating the upgrade module;

configuring the upgrade module to modify an input structured document having

particular data entry fields associated therewith to create an updated document which

conforms to expected data entry fields associated with the particular version of the

solution module;

modifying the input structured document to create new data entry fields in the

updated document provided that the new data entry fields are required in the particular

version of the solution module even if the new data entry fields are considered optional

by its schema; and

displaying the updated document on a display device.

21.   (Currently Amended) The method of claim 20, wherein the upgrade module is

generated using extensible stylesheet language (XSL).

22.   (Currently Amended) The method according to claim 20, further comprising:

configuring the upgrade module to modify the particular data entry fields in the

input structured document such that the updated document conforms to the expected

data entry fields associated with the particular version of the solution module.

23.   (Currently Amended) The method according to claim 20, further comprising:

configuring the upgrade module to omit data entry fields in

the input structured document from the updated document such that the updated

document conforms to the expected data entry fields associated with the particular

version of the solution module.

24.   (Canceled)

25.   (Canceled)

 26.   (Canceled)

The following is an examiner's statement of reasons for allowance:

The examiner's amendment incorporates the previously claimed limitations of

dependent claim 11, into independent claim 1, as well as adding the other newly

claimed limitations above.

Claims 1-10, 13-19, and 24-26 were previously rejected under 35 USC 103(a) as

being unpatentable over Bradley et al. ("Bradley"), U.S. Patent No. 7, 313,757 B2,

issued December 2007, in view of Maxwell et al. ("Maxwell"), U.S. Patent No.

6,589,290, issued July 2003.

Claims 11, 12, and 20-23 were previously rejected as being unpatentable over

Bradley in view of Maxwell, and further in view of Bradley, "The XML Companion, Third

Edition", published by Addison Wesley Professional, December 12, 2001 ("XML

Companion").

As amended above, independent claim 1 recites: *a method for upgrading documents for processing by a solution module associated with a markup language schema, comprising:*

....

determining whether each of the particular data entry fields matches expected data entry fields associated with the particular version of the solution module, wherein the determining further comprises determining whether the input structured document lacks data entry fields that were previously classified as optional but are no longer classified as optional in the particular version of the solution module....

Similarly, independent claim 20 recites: *a method for generating an upgrade module for upgrading documents for processing by a solution module associated with a markup language schema, comprising:*

...

modifying the input structured document to create new data entry fields in the updated document provided that the new data entry fields are required in the particular version of the solution module even if the new data entry fields are considered optional by its schema...

The limitations of independent claims 1 and 20 include the step of determining whether data entry fields are "optional". See specification, p. 20, l. 8-23. Previously, the XML Companion reference was relied upon to disclose the claim limitations

regarding "optional" data entry fields. Applicant's arguments regarding XML Companion

have been fully considered and are persuasive, see Remarks, filed 01/12/2009, p. 15-

19. Applicant argues that while XML Companion discloses required and optional XML

elements, XML Companion does not disclose classifying data entry fields as optional.

Further, it would not have been obvious to one of ordinary skill in the art at the time of

the invention to apply the "optional" classification to data entry fields, in order to

determine the expected data entry fields in a structured document.   Neither Bradley nor

Maxwell disclose data entry fields classified as "optional".

Regarding independent claim 1, the recited method is interpreted to inherently

involve the use of a computer, and therefore is directed to statutory subject matter,

because the processing by the claimed solution module transforms a structured

document into a format suitable for visual presentation on a display device, see

Specification, p. 22, par. 1.

For these reasons, claims are allowed over the prior art.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMELIA RUTLEDGE whose telephone number is (571)272-7508. The examiner can normally be reached on Monday - Friday 9:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached on 571-272-4137. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Amelia Rutledge/
Primary Examiner, Art Unit 2176